mart Wiring Centre is solid Green, consider an additional Zigbee booster JE START WILLING CENTER DAS TOST COMMUNICATION WITH THE START INTERTACE. CHECK POWER LED ON THE

ne Halo unit has lost communication to the Smart Interface, move the unit closer to the Smart terface or consider an additional Zigbee booster.

2040 swous jinn oleh

F03D sworld find oleH

Hactory reset of the Halo

Deleting the Smart Wiring Centre from the Zigbee

Deleting Halo from the Zigbee Network

-IW emod of forme

In the support page the Zigbee RSSI is lower than

oleh ant no aruteraqmat

Boiler fails to fire when

Palo screen is flashing

TROUBLE SHOOTING

Vo power LED on Smart Interface

iegrafie terregies in terregies

Smart Interface will not

v5 sha text red

oleH eceldeS

siled to pair Halo screen shows

Read and shows need and shows

esehetri trema

KIOWIK

in disconnection, the Smart Interface will automatically begin the setup process as per section 3 of the installation guide. The Halo Smart Interface will delete all Sigbee devices from the network, this will take approximately seconds and detach from the Wi-Fi network if the control is a connected control. ess and hold the Pair button and the Override button for 20 seconds.

Dr the Smart Wiring Centre press and hold pair button, the Pair LED on the Smart Wiring Centre will lash red then orange to confirm the device has been deleted from the network.

Dn the Halo press the dial and the right hand key together for 15 seconds, this will delete the Halo rom the Zigbee network and factory reset the device.

:ternally to the boiler using a bracket (further details on **idealheating.com**). Check range <30M between Smart Interface and Wi-Fi router. If the situation persists there consider using a Wi-Fi Booster or moniting the Smart Interface heck Wi-Fi router configuration, check Wi-Fi security is set to WPA/WPA2. neck Smart Intertace is in Access Point (AP) mode (reter to setup sequence in app).

mart Interface externally to the boiler using a bracket (further details on **idealheating.com**). It the situation persists then consider using Ligbee Booster (available separately) or mounting the onsider moving the Halo closer to the Smart Interface.

ting Halo then press accept. you have no other Halo thermostats connected to the Smart Interface or are not replacing an

mart Interface externally to the boiler using a bracket (further details on **idealheating.com**). t the situation persists then consider using Zigbee Booster (available separa i)) or wonuring rue Reset Smart Interlace by inserting a paperclip or pen tip into reset button. Start pairing mode again on the Smart Interface and press retry on the Halo. heck distance between Smart Interface and Halo (see section B). heck Smart Interface is in paring mode (Zigbee LED flashing red).

A. KIT CONTENTS

Check Smart Interface is securely plugged into boiler aperture. neck smart interface power LED is green. heck the target temperature is above current temperature.

ne Smart Interface is in 'Identify' mode press the Pair button to cancel this mode.

sck poller power is on.

Check Smart Interface is securely plugged into boiler aperture.

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mabol: newot tutput power: 10dBm KF frequency: 2405 – 2480MHz Max.

UIN: 225540 A01

moo.gnifeadleabi For more information and FAQs visit the Ideal Heating website

following internet address idealheating.com The full text of the EU declaration of conformity is available at the

is in compliance with: Directive 2014/53/EU. Hereby, Ideal Boilers Ltd declares that this device (model 222144)

E: enquiries@idealheating.com T: 01482 498660 807 SUH (IInH eunevA lenoiteN Ideal Boilers Ltd

welcome to our ideology



HALO COMBI 2-ZONE UPGRADE

Product Code: 222144

2-Zone upgrade kit for Halo Combi Wi-Fi or Halo Combi RF.

Compatible with the following boilers serial letter code AFQ onwards: Logic Combi C, Logic Combi C IE, Logic Combi ESP1, Logic Code Combi ESP1, Logic+ Combi C, Logic Max Combi C, Logic Max Combi C IE, iMini, Keston Combi, Vogue GEN2 Combi, Vogue Max Combi, Vogue Max Combi IE.

To install Halo with older boilers a separate bracket is required (Product Code: 220366), for further details on the compatibility of older boilers with Halo plus installation details please go to idealheating.com

The Halo Combi 2-Zone Upgrade is an add-on kit to the Halo Combi RF and Halo Combi Wi-Fi (UIN 222140 & 222142). The Halo Combi 2-7one upgrade consists of an additional Halo Combi Programmable Room Thermostat (PRT) and a Smart Wiring Centre The Halo Smart Interface from the Halo Combi RF or Wi-Fi plugs into the front aperture on the boiler and communicates to the boiler via OpenTherm. The Smart Interface communicates to the Smart Wiring Centre and Halo PRTs via Zigbee, a local RF protocol. The Halo Combi PRT units are powered by 4 AA batteries.

For Halo Combi Wi-Fi, the Smart Interface is Wi-Fi enabled and can be linked to the home Wi-Fi network to allow app-controlled heating via the Halo app, if you wish to upgrade your Halo Combi RF follow the instructions via the Halo App. A one-time payment will need to be made for this upgrade.

The Halo Combi 2-Zone Upgrade, including the Smart Wiring Centre, must be installed by a competent person with the appropriate safety qualifications. Please read the instructions carefully. Failure to follow these instructions can damage the product or cause a hazardous condition.

These instructions are applicable to the Ideal Boiler models stated and must not be used with any other make or model of boiler. This product must be installed to all applicable standards

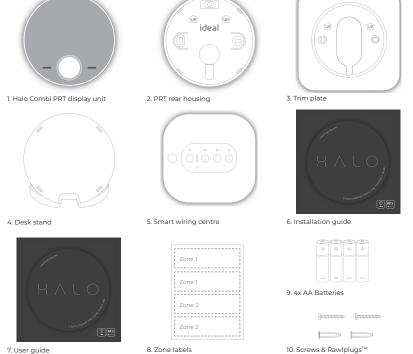
Always isolate the mains supply before installing or working on any components that require a 230V ac supply.

GETTING STARTED

For Installation, please disregard any previous instructions and follow this guide only.

The Ideal Halo app is available to download from the Apple app store and on Google Play. To save time the householder may want to download the app and set up the account whilst the thermostat is being installed.





In addition to this kit you must have either a Halo Combi RF (222140) or a Halo Combi Wi-Fi (222142) to complete installation. Please note: For installation, please disregard any previous instructions and follow this guide only.





Status	ГЕD	Status	TED
Green - Power ON No illumiation - No power	Power	Green - Power ON No illumination - No power	Power
do illumination - No Zigbee net Oreen - Zigbee network active Oreen flaching - Identify functio	Pair	Creen - Demand No illumination - No demand	Boiler
Red flashing then orange - Zigb Red flashing then orange - Zigb deletion		No Illumination - Cloud connection not configured Red - No connection Blue - Connection to Wi-Fi network OK, no	Connectivity
Green - Demand Green Flashing - Failsafe mode No illumination - No demand	gniteaH I anoZ	cloud connection Green - Connection to Wi-Fi and cloud OK Blue flashing - Access point mode	
Green - Demand Green Flashing - Eailsafe mode No illumintion - No demand	Prits∋H Σ ∋noΣ	Vo illumination - No Zigbee network Green - Zigbee network active Green flashing - leantify function Red flashing - Pairing Red flashing then orange - Zigbee	əədqiZ
Not used	Hot Water	network deletion Orange for 30s - Factory reset Green - Override active*	
d Failade only active when a lost between the Smart W los in lost between the Sole los Smart Inserface. The Sone whe when and closing of the zone whe	communicat d brie antre and H	*etive are sellea - Failsae active Vo illumination - Override OFF*	override
		l Failsafe only active when communication n Halo and Halo Smart Interface. See Halo r more information.	eswaed taol ai

SI Smart Interface

Pipework

---- RF Connection

SMART WIRING CENTRE LED KEY

C. SYSTEM OVERVIEW

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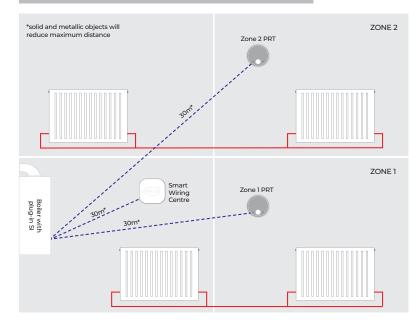
AVIJOE

AVIJOB

жиомлац аас

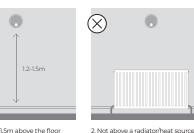
This is a simplified diagram of how the Halo units, Smart Wiring Centre and Smart Interface communicate. Some wiring and pipework has been omitted for clarity.

TOP TIP: For a robust signal between units, where possible, ensure that the line of communication between the Smart Interface and other units is not through any stone or metallic object.



Remember to leave this guide with the householder.					
Any advanced settings changes have been recorded.					
Ceneral overview of operation provided to user - refer to use guide.					
Suitable schedule has been entered for the user.					
Zone valves labelled using provided labels.					
Installer contact details inputted if required.					
Correct Zone shown on each Halo Unit					
Time and date correct. Note: on Halo Wi-Fi time and date taken from	the cloud.				
Cloud network icon is present on Halo home screen. (Wi-Fi only)	Ψ				
Zigbee network icon is present on the Halo home screen.					
Full battery level indication on Halo home screen.	Ū.				
Check the Smart Wiring Centre indication is correct.	Power LED green Pair LED green				
Check the Smart Interface indication is correct.	Power LED green Zigbee LED green Connectivity LED green				
	Boiler LED on Smart Interface OFF				
to 5°C (repeat using Halo app if applicable).	Boiler OFF				
on the Halo set the mode to AUUA of the temperature	Heating zone on Smart Wiring Centre OFF				
	Flame OFF				
bosition.	Boiler LED on Smart Interface ON (Green)				
Note: The boiler will only fire once the zone valve is in the fully open	Boiler ON				
On the Halo set the mode to AUTO then increase the temperature to 30° C (repeat using Halo spp if applicable).	Heating zone on Smart Wiring Centre ON				
	NO 9m6F				
Check RSSI (Received Signal Strength Indication) of the Zigbee Wireless connection and the Wi-Fi connection via the support information in the Halo app. (Wi-Fi only)	Target RSSI between 0 and -65 and text green				
Check RSSI (Received Signal Strength Indication) of the Zigbee wireless connection via support page on the PRT (access via the menu).	Target RSSI between 0 and -65 and text green				
nuom Yeab îi noiseool nazoro choedon on the deak no deak	red.				
Pair button again to exit "lefertify" function.	Halo home screen flashes to indicate successful pairing				
Use the "Identify" function to confirm successful pairing has taken blace. Short press on the Pair button on the Carlon Space. Press	Zigbee LED on Smart Interface flashes green				
Description	Z	[əuoZ	Z ənoZ		

COMMISSIONING CHECKLIST



1. Mounted 1.2-1.5m above the floor

3. Not in direct sunlight

5. Not fitted behind curtains

(X)



4. Away from any drafts



6. Internal use only

B. LOCATION GUIDELINES

Confirmed

The Halo Combi uses wireless Zigbee communication from the Smart Interface to the Smart Wiring Centre and Halo Combi PRTs up to a maximum distance of 30 meters. Occasionally house constructions and materials can reduce this communication range and it is advisable, where possible, to try and avoid directing communications through metal frames or solid concrete walls.

If the distance between the Halo Combi PRT and Smart Interface or the Smart Wiring Centre and Smart Interface is greater than 30m or the install location is challenging, consider using the Zigbee Booster (UIN 221132) or mounting the smart interface externally to the boiler using a bracket (further details available at idealheating.com)

frames or solid concrete walls.

The Halo control system

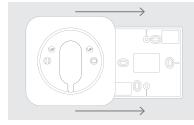
connects to the home Wi-Fi network through a module in the Smart Interface. The home Wi-Fi router should be positioned no more than 30m from the Smart Interface. Where possible avoid directing communications through metal

D. INSTALLING BOTH HALO COMBI PRT'S

The Halo can be either wall mounted or desk mounted.

WALL MOUNTING THE HALO

If there are any concerns regarding signal strength and location of the wall mounted Halo Combi it is advisable to pair the control and check the signal strength before fixing to the wall.



1. The Halo can be installed with or without the provided trim plate.

3. Insert the 4 AA batteries provided into the front housing

batteries is as indicated in the housing.

of the Halo. Pay close attention that the orientation of the

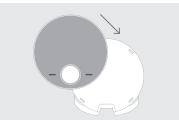


2. If no trim plate is required, use the rear housing of the Halo to position the unit on the wall alternatively secure rear housing to trim plate. Take care not to overtighten the screws.



DESK MOUNTING THE HALO

The Halo has an integrated rear housing and desk stand.



3. Clip the combined rear housing and desk stand into place.

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Pour Bar Derreitaty 200

E. INSTALLING THE SMART WIRING CENTRE

The Smart Wiring Centre controls the operation of the zone valves for the central heating system. The Smart Wiring Centre communicates wirelessly to the Smart Interface via the Zigbee RF protocol. The Smart Wiring Centre must be mounted to a fixed surface before installation.

Removing the cover

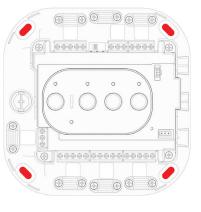
for the wall type.

Using a suitable screwdriver turn the locking key one guarter turn anticlockwise to the [UNLOCK]

remember to lock the front panel to the Smart

the Smart Wiring Centre to the wall. position. Remove the front panel by lifting the left hand edge first. Assemble in reverse order. Always

Wiring Centre



Do not remove the cover unless you are qualified to do so.

H. PAIRING OF THE HALO

The Halo Combi PRT units now need to be paired with the Smart Interface installed in the boiler. Ensure the Halo Smart Interface is still in pairing mode with the Zigbee LED flashing red.

- 1. When the batteries are inserted, the Halo Combi will power up automatically.
- 2. The device will prompt pairing with the Halo Smart Interface using an easy step-by-step
- 3. Simply follow the on-screen guide to select the type of boiler, **Combi**, the number of zones, Multizone, and which zone the PRT is controlling. The default selection is Zone 1.
- 4. The Halo Combi screen will show "Pairing in Progress", then "Synchronisation in Progress" and then "Pairing Complete" when the Halo Combi has successfully connected to the Smart Interface.

5. The device will automatically prompt set up of the time and date

- 6. There is the opportunity to add an installer contact phone number into the device at this stage, if not changed this will default to the Ideal Heating Customer Service number.
- 7. The home screen will be displayed showing the current and target temperature and the temperature bar. The Zigbee communication icon will also be visible on the display
- 8. Repeat steps 1-7 for the second Halo Combi PRT ensuring the Halo Smart Interface is still in pairing mode and that you adjust the zone selected in step 3 to Zone 2.
- 9. Once the 2nd Halo Combi PRT is paired to the Halo Smart Interface press and hold the pair button on the Halo Smart Interface until the Zigbee LED goes to solid green.







Insert the 4 AA batteries provided into the front housing

the batteries is as indicated in the housing.

of the Halo. Pay close attention that the orientation of

Date Convertieity Zalas

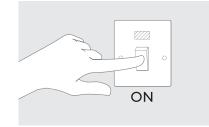


The override button will only operate the boiler before the Halo units are connected. Once the Halo units are connected the override button will not activate the boiler unless communication is lost.

perpendicular to the rear housing and clip into place.

G. PAIRING OF THE SMART INTERFACE TO THE SMART WIRING CENTRE

To pair the Smart Wiring Centre to the Halo Smart Interface follow the steps below.

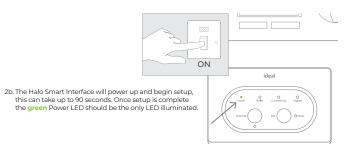


1. Turn the power back on to the boiler and Smart Wiring 2a. The Smart Wiring Centre will power up and



4. Locate the front housing (display) in positio

automatically enter into pairing mode shown by the pairing LED flashing red, this mode will be active for 10 minutes. If further time is required after 10 minutes hold the pair button until the pair light flashes **red.**



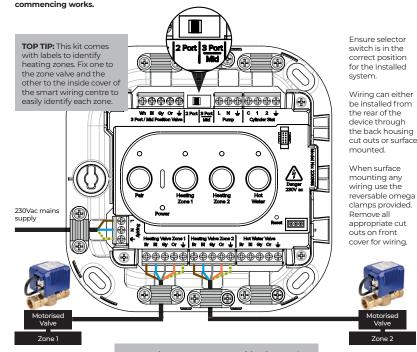


- 5. Pairing will now commence between the units. To show a successful pairing process the Pair LED on the Smart Wiring Centre will turn Solid Green
- 3. Check the Smart Interface connection to the boiler by pressing the override button. The override LED should be the Zigbee LED flashes red. green and the boiler will fire. Press the override button again to switch off the boiler, the override LED should now ao out*

Wall mounting the Smart Wiring Centre

Please refer to the location guidelines before fixing Using the 4 fixing locations on the Smart Wiring

Centre secure to the Wall with adequate fixings



The Smart Wiring Centre must be installed by a competent person with the appropriate safety qualifications.

All wiring must be adequately sheathed and insulated. The Smart Wiring Centre must be mounted to a fixed

Isolate any 230V ac mains supply to the Smart Wiring Centre and any other linked components before

Do not reinstate power once wiring is complete



I. CONNECTING THE HALO **TO THE INTERNET***

surface before installation.

- 1. Check the home router is connected to the internet. 2. Ensure 2.4GHz is enabled on the home
- Wi-Fi router.
- 3. If it has not been done already, download and install the Ideal Halo app onto the householders phone. (Available on Google Play or the Apple App Store.)
- 4. Open the Ideal Halo app, tap on create an account and follow the in-app instructions.
- 5. Once an account has been set up the app will automatically guide the user through connection of the Halo. This will involve using the app to link the Halo Smart Interface to the home Wi-Fi network by following the instructions on the screen
- 6. The householder will need the name of their home Wi-Fi network and the password or network key to complete the setup.

Minimum operating requirements Smart Phone/Tablet - iOS 9 Android 4.4.3

PC latest version of Chrome, Safari, Firefox or ternet Explorer on Mac OS or Windows 7

*Halo Combi Wi-Fi only

If you wish to upgrade your Halo Combi RF follow the instructions via the Halo App. A one-time payment will need to be made for this upgrade.

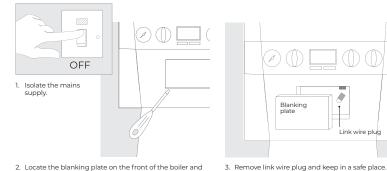






F. INSTALLATION OF THE SMART INTERFACE

To install the Halo Smart Interface into a new boiler with serial letter code AFO onwards (found on the data plate) follow the steps below. For further details on the compatibility of older boilers and how to install the Smart Interface into a bracket and wire into the boiler please visit idealheating.com



2. Locate the blanking plate on the front of the boiler and ove carefully with a flat bladed screwdriver



4. Connect the plug on the Halo Smart Interface to the connector in the aperture.

5. Push fit the Halo Smart Interface into the boiler aperture.

ADVANCED SETTINGS

Description	Factory setting	New setting
Optimised start Boiler starts heating in advance of schedule so heating reaches the required temperature at the time specified.	OFF	
Optimised stop Boiler stops heating in advance of schedule so heating reaches the required temperature at the time specified.	OFF	
Delayed start If the room temperature is close to target temperature the heating start time is delayed to save energy.	OFF	
Display tolerance Select the display tolerance of the room temperature, this can be set at increments of 0.5 or 0.1°C.	0.1°C	
Temperature offset Fine tune the room temperature display -2.5 to 2.5°C.	0°C	
Daylight saving time Automatically move to daylight saving.	ON	
Frost protection The temperature that will be used to protect your home when the thermostat is off. Can be set 5°C.	5°C	
Service phone number Opportunity to input Installer contact number for service reminders.	Ideal Heating number	

HALO FEATURES AND CONFIGURATION

To enter the settings menu press the menu button.

Menu options	Action Holiday mode allows the device to be switched off for a pre-defined period of time then automatically returns to the pre-programmed heating schedule.		
Holiday			
Timed heating schedule	Set a heating schedule with up to 6 periods per day.		
Support	Includes information such as software version and key contact numbers.		
Fault page	Shows the latest fault code and fault description.		
Time and date	date Time and date are set on power up and can be adjusted via the menu.		
Advanced settings	nced settings Advanced features of the device setup should be set by a competent person.		
andlord settings Specific settings for landlords.			